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L12: Entry 11 of 40

File: DWPI

Sep 17, 2002

DERWENT-ACC-NO: 2000-366951

DERWENT-WEEK: 200276

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TITLE: Battery housing consists of cold rolled sheet having an interior electroplated coating with incorporated carbon particles to provide low long term and initial battery internal resistance

INVENTOR: BORISCH, A; FERENCZY, N ; KOSSLERS, H ; MONSCHEUER, B ; OLBERDING, W ; SCHENCK, A ; SCHMIDT, F ; SCHENCK, ; SCHENCK, S

PATENT-ASSIGNEE:

ASSIGNEE

HILLE & MUELLER GMBH

HILLE & MUELLER GMBH & CO

CODE

HILLN

HILLN

PRIORITY-DATA: 1998DE-1052202 (November 12, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2002530810 W	September 17, 2002		018	H01M002/02
DE 19852202 A1	May 25, 2000		004	H01M002/02
WO 200030188 A1	May 25, 2000	G	000	H01M002/02
AU 9964748 A	June 5, 2000		000	H01M002/02
BR 9915258 A	August 7, 2001		000	H01M002/02
EP 1142041 A1	October 10, 2001	G	000	H01M002/02
DE 19852202 C2	January 24, 2002		000	H01M002/02
KR 2001089448 A	October 6, 2001		000	H01M002/02
CN 1326593 A	December 12, 2001		000	H01M002/02
DE 29924150 U1	March 7, 2002		000	H01M002/02
AU 751287 B	August 8, 2002		000	H01M002/02

DESIGNATED-STATES: AU BR CA CN IL IN JP KR MX PL RU SG US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

APPLICATION-DATA:

PRIORITY DOC.
BAD DATE

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2002530810W	October 20, 1999	1999WO-EP07961	
JP2002530810W	October 20, 1999	2000JP-0583097	
JP2002530810W		WO 200030188	Based on
DE 19852202A1	November 12, 1998	1998DE-1052202	
WO 200030188A1	October 20, 1999	1999WO-EP07961	
AU 9964748A	October 20, 1999	1999AU-0064748	
AU 9964748A		WO 200030188	Based on
BR 9915258A	October 20, 1999	1999BR-0015258	
BR 9915258A	October 20, 1999	1999WO-EP07961	
BR 9915258A		WO 200030188	Based on
EP 1142041A1	October 20, 1999	1999EP-0952618	
EP 1142041A1	October 20, 1999	1999WO-EP07961	
EP 1142041A1		WO 200030188	Based on
DE 19852202C2	November 12, 1998	1998DE-1052202	
KR2001089448A	May 12, 2001	2001KR-0706017	
CN 1326593A	October 20, 1999	1999CN-0813219	
DE 29924150U1	October 20, 1999	1999DE-2024150	
DE 29924150U1	October 20, 1999	1999EP-0952618	Application no.
AU 751287B	October 20, 1999	1999AU-0064748	
AU 751287B		AU 9964748	Previous Publ.
AU 751287B		WO 200030188	Based on

INT-CL (IPC): C25 D 3/12; C25 D 3/56; C25 D 5/00; C25 D 5/10; C25 D 5/26; C25 D 5/50; C25 D 7/00; C25 D 7/04; C25 D 15/02; H01 M 2/02

ABSTRACTED-PUB-NO: DE 19852202A
BASIC-ABSTRACT:

NOVELTY - The battery housing consists of cold rolled sheet having an interior electroplated coating with incorporated carbon, graphite or carbon black particles.

DETAILED DESCRIPTION - A battery housing consists of shaped cold rolled sheet with an interior electroplated coating of Ni, Co, Fe, Sn or their alloys incorporating carbon, graphite or carbon black particles.

An INDEPENDENT CLAIM is also included for production of strip for the above battery housing.

USE - As a battery housing.

ADVANTAGE - A battery, provided with the above housing, exhibits a lower increase in internal resistance on long term storage and a lower initial internal resistance compared with conventional batteries.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: BATTERY HOUSING CONSIST COLD ROLL SHEET INTERIOR ELECTROPLATING COATING INCORPORATE CARBON PARTICLE LOW LONG TERM INITIAL BATTERY INTERNAL RESISTANCE

DERWENT-CLASS: L03 M11 X16

CPI-CODES: L03-E01D; M11-A; M11-B;

EPI-CODES: X16-F01;

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C2000-110959

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L1: Entry 1 of 5

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Feb 3, 2000

DERWENT-ACC-NO: 2000-195106

DERWENT-WEEK: 200221

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TITLE: Surface-treated steel sheet for battery case has a graphite-dispersed nickel-plated layer or a graphite-dispersed nickel-alloy-plated layer

INVENTOR: OHMURA, H; TOMOMORI, T ; YAMANE, K

PATENT-ASSIGNEE:

ASSIGNEE

TOYO KOHAN CO LTD

CODE

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PRIORITY-DATA: 1998JP-0223747 (July 24, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200005437 A1	February 3, 2000	J	027	C25D015/02
TW 445663 A	July 11, 2001		000	H01M002/26
AU 9947984 A	February 14, 2000		000	C25D015/02
EP <u>1103638</u> A1	May 30, 2001	E	000	C25D015/02
JP 2000561381 X	September 25, 2001		000	C25D015/02
CN 1311829 A	September 5, 2001		000	C25D015/02
KR 2001086350 A	September 10, 2001		000	H01M002/02

DESIGNATED-STATES: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW
MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW AT BE CH
CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW AL
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 200005437A1	July 22, 1999	1999WO-JP03907	
TW 445663A	July 13, 1999	1999TW-0111845	
AU 9947984A	July 22, 1999	1999AU-0047984	
AU 9947984A		WO 200005437	Based on
EP 1103638A1	July 22, 1999	1999EP-0931468	
EP 1103638A1	July 22, 1999	1999WO-JP03907	
EP 1103638A1		WO 200005437	Based on
JP2000561381X	July 22, 1999	1999WO-JP03907	
JP2000561381X	July 22, 1999	2000JP-0561381	
JP2000561381X		WO 200005437	Based on
CN 1311829A	July 22, 1999	1999CN-0809111	
KR2001086350A	January 18, 2001	2001KR-0700795	

INT-CL (IPC): C25 D 15/02; H01 M 2/02; H01 M 2/22; H01 M 2/26

ABSTRACTED-PUB-NO: WO 200005437A
BASIC-ABSTRACT:

NOVELTY - The surface-treated steel sheet is formed on at least the surface serving as an inner side of a battery case with a graphite-dispersed nickel-plated layer or a graphite-dispersed nickel-alloy-plated layer. The battery case is formed by drawing, DI working and DTR working the above surface-treated steel sheet.

DETAILED DESCRIPTION - The alloy plated layer is preferably formed by a nickel-cobalt alloy, nickel-cobalt-iron alloy, nickel-manganese alloy, nickel-phosphorus alloy or nickel-bismuth alloy.

USE - Surface-treated steel sheet for a battery case for a battery improved in its electrical contact with a battery positive electrode active substance.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: SURFACE TREAT STEEL SHEET BATTERY CASE GRAPHITE DISPERSE NICKEL PLATE LAYER GRAPHITE DISPERSE NICKEL ALLOY PLATE LAYER

DERWENT-CLASS: L03 X16

CPI-CODES: L03-E01D;

EPI-CODES: X16-F01;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1778U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-060436

Non-CPI Secondary Accession Numbers: N2000-144382